




Faculty Details proforma for DU College Web-site

Title	Dr.	First Name	Chandra Kanta	Last Name	Samal	Photograph
Designation	Associate Professor					
Address	Acharya Narendra Dev College Govind Puri, Kalkaji New Delhi-110019.					
Phone No Office						
Residence Mobile	9310270787,9868319287					
Email/ Web-Page	chandrakantsamal@andc.du.ac.in, cksamal@gmail.com					
Educational Qualifications						
Degree	Institution				Year	
Ph.D.(Comp.Sc.) Mobile Ad Hoc Network	SC &SS, Jawaharlal Nehru University, New Delhi, India.				10 th May 2013(Awarded)	
M.Tech (Computer Science and Technology)	SC &SS, Jawaharlal Nehru University, New Delhi, India.				2004	
M.C.A (Computer Science and Application)	Utkal University, Department of Computer Science and Application, VaniVihar, Bhubaneswar, Odisha,India.				1999	
Career Profile						
<ul style="list-style-type: none">• 18th October 2019 - Till Date, Associate Professor in Department of Computer Science, Acharya Narendra Dev College, University of Delhi, New Delhi.• 18th October 2006 - 17th October 2019, Assistant Professor (Permanent Position) in Department of Computer Science, Acharya Narendra Dev College, University of Delhi, New Delhi.• 3rd April 2006 to 13th Oct 2006 as Lecturer Galgotia College of Engineering and Technology (G.C.E.T), U.P. Technical University, Greater Noida.						
Administrative Assignments						
<ol style="list-style-type: none">1. April 2011-March 2013(Teacher-In-Charge) Department of Computer Science and B.Sc. Program in Computer Science, AND College, (DU).2. 4th January 2017- 15th April 2017(Teacher-In-Charge) Department of Computer Science, AND College,(DU).3. 3rd January 2018- 17th April 2018(Teacher-In-Charge) Department of Computer Science, AND College,(DU).						
Areas of Interest / Specialization						
Wireless Ad-hoc Networks, Sensor Networks, Computer Networks, Opportunistic Networks Underwater Sensor Networks and Image Processing.						
Subjects Taught						
<ol style="list-style-type: none">1. B.Tech(Comp.Sc.) III Sem.(FYUP) : Data Communication and Computer Networks.2. PGDCA(Comp.Sc.) II Sem.: Data Communications and Networks.3. B.Sc.(H)(Comp.Sc.) V Sem.(old) : Computer Networks, IV Sem. (New) : Data Communication and Computer Networks.4. B.Sc.(H)(Comp.Sc.) III Sem.(CBCS): Computer Networks						

5. B.Tech(Comp.Sc.) VII Sem.(FYUP): Network Programming and Administration.
6. B.Sc.(H)(Comp.Sc.)VII Sem.: Network Programming and Administration (New).
7. B.Sc.(H)(Comp.Sc.) VII Sem.(Old): Unix Socket Programming and Administration.
8. M.Tech(Comp.Sc. & Engg.): Mobile Communication, Parallel Computing.
9. M.C.A : Microprocessor
10. B.Sc.(Phy.Sc. Computer Science) IV Sem.(CBCS), III Sem.(New)&2ndyr (old): Computer System Architecture.
11. B.Sc. Program in LS, Electronics, Chemistry,B.Sc.(H)Elec and BMS Computational Skills paper.
12. B.Tech(Electronics) IV Sem.(FYUP) : Data Communication and Computer Networks.

Research Guidance

1. One student Ph.D (Comp.Sc.) (Ramakanta Choudhury, Title: Implementation of reliable path planning technique for mobile robots in presence of obstacles) (25th Feb 2018 Ph.D degree Awarded) from Department of Computer Sc. & Engg. , Kalinga University, Raipur.
2. Four students M.Tech (IT) (Two from IETE(Institute of Electronics and Telecommunication Engineers)) and(Two from Karnataka State Open University)
3. Three students M.Tech(Information Technology) from Netaji Subhas Institute of Technology , New Delhi, thesis evaluation and awarded for M.Tech degree viva.
4. Four students M.Tech(Information Technology) from IGDTUW, New Delhi, thesis evaluation and awarded for M.Tech degree viva.
5. Five students M.C.A & Three B.C.A students S/W project work from IGNOU.
6. Three students P.G.D.C.A and Thirty students B.Sc(H) Computer Science from University of Delhi.

Publications Profile

- [1] Chandra Kanta Samal, *“TCP Performance through Simulation and Testbed in Multi-Hop Mobile Ad hoc Network”*, Department of Computer Science, AND College , University of Delhi, New Delhi , India, **International Journal of Computer Networks & Communications (IJCNC)**, Vol.2, No.4, July 2010,ISSN:0974-9322.
- [2] Chandra Kanta Samal, *“Maximum Throughput in a Lined Up MANET ”*, School of Computer and System Science, Jawaharlal Nehru University, New Delhi, India, VIVECHAN International Journal of Research,Vol.1, 2010, ISSN: 0976-8211.
- [3] Ramakanat Choudhury, Chandra Kanata Samal and Dr. Umakanta Choudhury, *“Multi-hop path tracing of mobile robot with multi-range image”*, Second International Conference on Digital Image Processing. Edited by Jusoff, Kamaruzaman; Xie, Yi. Proceedings of the SPIE(**Journal of SPIE Proceedings**), Volume 7546, pp.75462T-75462T-10 (2010) published by SPIE and NASA Astrophysics Data System (**SPIE– International Society for Optical Engineering, United States**), ISSN: 0277-786X. e-ISSN Number : 1996756X
- [4] Chandra Kanta Samal, G.V. Singh and Sanjay Kumar Dhurandher, *“Stable and Reliable Broadcast Scheduling in Multi-Hop MANET ”*, Department of Computer Science, AND College, University of Delhi, New Delhi, India, SC&SS, Jawaharlal Nehru University, New Delhi, India and NSIT, University of Delhi, New Delhi, India, **International Journal of Engineering Science and Technology (IJEST)** Vol. 3 No. 9 September 2011, ISSN: 0975-5462.
- [5] Chandra Kanta Samal, *“High Data Rate in Wi-MAX Mobile”*, Department of Computer Science, AND College , University of Delhi, New Delhi, India , International Journal of Management and Technology Research, 3(1): 23-24(2014), ISSN: 2277-291X.
- [6] Amit Garg, Avinash Kumar Shudhanshu, Raj Kumar, Shadashiv Raj Bharadwaj, Roopesh Tehri and Chandra Kanta Samal, *“Development of Open Source Low Cost Wireless Data Acquisition Systems for Science Experiments”* , AND College , University of Delhi, New Delhi, India, International Journal of Information & Computation Technology. Volume 4, Number 12 (2014), pp.1123-1128, ISSN: 0974-2239.
- [7] Urvashi Chaudhary, Chandra Kanta Samal, and Vinesh Kumar, *“ Online Signature Verification: A Review”*, Department of Electrical Engineering, IIT Delhi, Department of Computer Science, Acharya Narender Dev College University of Delhi, Delhi , IOSR Journal of Computer Engineering (IOSR-JCE), e-ISSN: 2278-0661,p-ISSN: 2278-8727, Volume 19, Issue 2, Ver. III (Mar.-Apr. 2017), PP 33-37.
- [8] Chandra Kanta Samal, *“A Review on Multiple Channel allocation in Mobile Ad hoc Networks”*, Department of Computer Science, AND College , University of Delhi, New Delhi, India, International Journal of Advance Engineering and Research Development , Volume 4, Issue 7, July -2017, e-ISSN (O): 2348-4470 P-ISSN (P): 2348-6406.

- [9] Rama kanta Choudhury, Sanjay Kumar and Chandra Kanta Samal, “**Mobile Robot Path Planning Approach: A Review**”, Department of Computer Science, Kalinga University, New Raipur, Chhattisgarh, India, Computer Science, Kalinga University, New Raipur, Chhattisgarh, India, Department of Computer Science, AND College, Delhi University, New Delhi, India, *International Journal of Advanced Scientific Research and Management*, Vol. 2 Issue 8, August 2017, **ISSN 2455-6378**.
- [10] Chandra kanta Samal and Rama kanta Choudhury, “**Architecture Based on Environmental Monitoring System using ZigBee Wireless Sensor Networks**”, Department of Computer Science, AND College, Delhi University, New Delhi, India, Department of Computer Science, Kalinga University, New Raipur, Chhattisgarh, India, *International Journal of Advanced Scientific Research and Management*, Vol. 2 Issue 8, Aug 2017, **ISSN 2455-6378**.
- [11] Rama Kanta Choudhury and Chandra Kanta Samal , “**Target Assignment in Robotics and its Distance Optimality Using DDA Optimization in Image Processing**”, Department of Computer Science, Kalinga University, New Raipur, Chhattisgarh, India , Department of Computer Science, AND College, Delhi University, New Delhi, India, *International Journal of Science and Research Methodology (IJSRM) Human Journals Research Article* September 2017 Vol.:7, Issue:3, **ISSN 2455-6378**.
- [12] Chandra kanta Samal , Rama kanta Choudhury, Vinesh Kumar and Sampoorananda Mishra, “**Low Power Consumption in ZigBee Wireless Networks: A Survey**” , Department of Computer Science, AND College, Delhi University, New Delhi, India, Computer Science, Kalinga University, New Raipur, Chhattisgarh, India, Computer Science, Bharati College, Delhi University, New Delhi, India, English, Ambadker polytechnique, NCT of Delhi, New Delhi, India, *International Journal of Advance Engineering and Research Development Volume 4, Issue 12, December -2017*, e-ISSN (O): 2348-4470 , p-ISSN (P): 2348-6406.
- [13] Rama Kanta Choudhury and Chandra Kanta Samal, “**IMPACT OF DDA OPTIMIZATION ON MOBILE ROBOT PATH PLANNING FOR MIXED IMAGE IN IMAGE PROCESSING**” , Department of Computer Science Kalinga University New Raipur, Chhattisgarh, India, Department of Computer Science AND College, Delhi University New Delhi, India, *International Journal of Advanced Research in Computer Science*, Volume 8, No. 8, September-October 2017, **ISSN No. 0976-5697**.
- [14] Rama kanta choudhury, Chandra kanta Samal,, “**Comparative Analysis on Path Planning Algorithm’s on Mobile Robot in Image Processing**” , Computer science, Kalinga University, New Raipur, Chhattisgarh, India, Computer Science, AND College, Delhi University, New Delhi, India , *International Journal of Advance Engineering and Research Development, Volume 4, Issue 8, August -2017*, e-ISSN (O): 2348-4470 p-ISSN (P): 2348-6406.
- [15] C.K. Samal, R. K. Choudhury , “**Bandwidth Efficient Broadcast Protocols in MANETs: A Review**” , Computer Science, AND College , Delhi University, New Delhi, India , Computer Science, Kalinga University, New Raipur, India , *International Journal of Computer Sciences and Engineering*, Volume-6, Issue-1, January 2018, **E-ISSN:2347-2693**.
- [16] Sampurnananda Mishra, Chandra Kanta Samal, Navneet Yadav, Rama Kanta Choudhury , “**The Impact Of Various Digitized Social Networking Media Through Text, Images And Videos On Language Usage**” , Bhai Parmanand Institute of Business Studies, Shakarpur, Delhi-92 , AND College, Delhi University, Delhi-19, M.A.I.T, Delhi , *INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME 8, ISSUE 10, OCTOBER 2019*, **ISSN 2277-8616**.
- [17] Rama kanta choudhury, Chandra kanta Samal, “**Reliable Path Finding Technique for Mobile Robot**” , M.A.I.T, IP University, New Delhi, India, AND College, Delhi University, New Delhi, India, *INFOCOMP Journal of Computer Science, INFOCOMP*, v. 19, no. 2, p. 42-56, **December 2020** published by Department of Computer Science, Federal University of Lavras, **ISSN: 1807-4545 (print) and e-ISSN: 1982-3363**.

Conference/ Presentations/Workshops

- [1] Chandra Kanta Samal , “**Maximum Throughput in a Multi-Hop MANET**” , Acharya Narendra Dev College, Delhi University, New Delhi, *International Conference on VLSI-Design & communication System-2010(Chennai)*, India. **ISBN: 93-80043-70-8**.
- [2] Ramakanat Choudhury, Chandra Kanata Samal and Dr. Umakanta Choudhury, “**A Balanced Approach for Mobile Robot with Dynamic Range Image**” , Maharaja Agrasen Institute of Technology, New Delhi, Acharya Narendra Dev College, Delhi University, New Delhi and Ideal College, Ghaziabad Uttar Pradesh, *International Conference on VLSI-Design & communication System-2010(Chennai)*, India. **ISBN: 93-80043-70-8**.

- [3] RamaKanta Choudhury, Chandrakanta Samal, Shivani Shukla and Geet Sawhney, “ **Wireless Guided Movement of Robot Using Mobile Phone**” , Maharaja Agrasen Institute of Technology, New Delhi, Acharya Narendra Dev College, Delhi University, New Delhi, National conference on Engineering, Science & Management: Innovation & Challenges(ESMIC-2016) organized by Delhi Technical Campus(Affiliated to GGSIP University, Approved by AICTE) Greater Noida, UP,India. **ISBN 978-783-9354-856-7.**
- [4] RamaKanta Choudhury, V.C.Pandey, Sakshi Garg and Chandrakant Samal, “**An integrated approach of real time visual link path planning model with distance calculation for mobile robot navigation**” , Maharaja Agrasen Institute of Technology, New Delhi, Acharya Narendra Dev College, Delhi University, New Delhi,National conference on “Computational Intelligence, Communication Network and Smart Grid(NCCCS-2016” organized by HMR Institute of Technology & Management(Affiliated to GGSIP University, Approved by AICTE) Hamidpur, Delhi, India. **ISBN: 978-93-85758-03-4.**
- [5] Bawa Abhineet, Choudhury Rama Kanta, Samal Chandra Kanta and Yadav Navneet , “**Programmable Joint Computing Filter For Low-Power and High-Performa Applications**”, MAIT, GGSIPU, Delhi, India and Acharya Narendra Dev College, Delhi University, Delhi, India. **paper published in Springer Nature Singapore Pte Ltd. 2021** ,D. Garg et al. (Eds.): IACC 2020, CCIS 1368, pp. 296–307, 2021.
- [6] **Ramakanta Choudhury, Navneet Yadav, Jaideep Kala, Sonalika Bhandari and Chandrakanta Samal**, “Real Time Monitoring and Analysis of Troposphere Pollutants Using a Multipurpose Surveillance Drone”, Development and Future of Internet of Drones (IoD), 1,2,3,4 Dept. of Electronics and Communication Engineering, Maharaja Agrasen Institute of Technology, New Delhi, Acharya Narendra Dev College, Delhi University, New Delhi, IoD2020: Development and Future of Internet of Drones(IoD): Insights,Trends and Road Ahead, Chapter-4 , April , **2021**, Published by **Apple Academic Press (CRC Press , a Taylor & Francis Group)**.
- [7] Chandra Kanta Samal, “ **Role of Ad hoc Wireless Sensor Networks in Disaster Management**”, AND College, University of Delhi, Delhi, CPDHE UGC-HRDC, University of Delhi,2017, **ISBN:978-81-93451-45-3.**
- [8] January 8th -10th , 2010 Has participated International conference on VLSI Design and communication systems organized by Department of electronics and communication engineering, Meenakshi Sundararajan Engineering college,Chennai-600024.
- [9] 29th -30th April,2016 Has participated in the International Conference on Computing Communication and Automation (ICCCA2016) as a **Session Chair** organized by Deptt.Comp.Sc. & Engg.GalgotiasUniversity,UP,India.
- [10] 10th -11th March 2016 Has participated National conference on Engineering, Science & Management: Innovation & Challenges (ESMIC-16) organized by Delhi Technical Campus (Affiliated to GGSIP University, Approved by AICTE) Greater Noida, UP,India.
- [11] 19th -20th Feb 2016, Has participated National conference on “Computational Intelligence, Communication Network, and Smart Grid(NCCCS-2016” organized by HMR Institute of Technology & Management (Affiliated to GGSIP University Approved by AICTE) Hamidpur, Delhi, India.
- [12] 13th Nov -24th Nov 2006 Has participated in a 10 days full time course on “Training of Teachers in e-learning”Organized by Department of Information Technology, Ministry of Communications & Information Technology, Govt of India & University of Delhi.
- [13] 6th Dec & 7th Dec 2007, Has participated in the workshop on “Linux and FREE-OPEN SOURCE SOFTWARES”organized by Deptt. Comp.SC., Acharya Narendra Dev College, University of Delhi.
- [14] January5th-7th, 2009 Assistance in organizing Linux 09,Workshop cum Training Programme on “Linux, FOSS & Clustering” organized by Deptt. Comp.SC., Acharya Narendra Dev College, University of Delhi.
- [15] 27th Aug2016 Has participated in the workshop on “ Latex and HTML” organized by Deptt.Mathematics., Acharya Narendra Dev College, University of Delhi.
- [16] 15th June 2006, Has participated in Faculty development program on “ Six sigma-A Breakthrough Approach” organized by Galgotias Institute of Management & Technology , U.P. Technical University, Greater Noida.
- [17] One Day Faculty Development Program on “Teachers as mentors” conducted by Internal Quality Assurance Cell on 25th October, 2018 held at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- [18] Two Day Faculty Development Programme on “Emotional Intelligence” conducted by ICT Academy on 1st April 2019 to 2nd April 2019 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- [19] 18th March to 23rd March 2019, participated in the one week workshop on “ 1st Workshop on Mooc’s,e-content development and open educational resources” Organized by HRDC Jawaharlal Nehru University, New Delhi.
- [20] Member of Organization Committee of a One day workshop on “FOSS, OpenMoku and Ruby on rails” by Mr. Gora Mohanty, Mr. Supreet Sethi and Mr. Sawood Alam, Delhi LUG respectively”, held on 29th January, 2009 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- [21] An invited technical talk conducted, deliver by Mr. Manish Bansal at Altran Technologies Title: “*System Automation and HA Clustering*” organized by Deptt.Comp.Sc.,Acharya Narendra Dev College on 7th Nov,2019.

[22] An invited technical talk conducted, deliver by Mr. Jitender Singh at Caastle Technology Title: “*Chaos Engineering*” organized by Deptt.Comp.Sc.,Acharya Narendra Dev College on 15th Feb , 2019.

[23] An invited technical talk conducted, deliver by Dr. Vasudha Bhatnagar at Deptt.Comp.Sc.,University of Delhi Title: “*Turing test to Deep learning*” organized by Deptt.Comp.Sc., Acharya Narendra Dev College on 19th Sep, 2018.

[24] An invited technical talk conducted; deliver by Dr. Amar Kumar Mohapatra. at Deptt.Information Technology, IGDTUW,New Delhi , Title: “*ETHICAL HACKING*” organized by Deptt.Comp.Sc.,Acharya Narendra Dev College on 15th Sep, 2017.

[25] An invited technical talk conducted, deliver by Dr. Sanjay Kumar Dhurandher at Deptt.Information Technology, NSIT ,New Delhi , Title: “*Cognitive Radio Network*” organized by Deptt.Comp.Sc.,Acharya Narendra Dev College on 2nd March, 2017.

[26] An invited technical talk conducted, deliver by Dr.Arun Sharma at Deptt.Information Technology, IGDTUW,New Delhi Title: “*Autonomic Computing*” organized by Deptt.Comp.Sc.,Acharya Narendra Dev College on 3rd Oct , 2016.

[27] An invited technical talk conducted, deliver by Dr. SRN Reddy at Deptt.Comp.Sc. &Engg., IGDTUW,New Delhi Title: “*Embedded Systems and Mobile Architecture and Programming*” organized by Deptt.Comp.Sc., Acharya Narendra Dev College on 1st Sep , 2012.

(Orientation/Refresher/FDP Course attended):

- Orientation Programme (**105OP**) 15th July 2013 to 14th Aug 2013 organized by UGC Academic Staff College Jamia Millia Islamia University, New Delhi.
- Refresher Course(Information Technology(ID)) 23rd June 2016-13th July 2016 organized by HRD CENTRE GURU NANAK DEV UNIVERSITY, AMRITSAR, Punjab.
- UGC Sponsored 3 weeks Interdisciplinary Refresher Course in Climate Change and Disaster Management (ID) from June 09, 2017 to June 30, 2017; conducted by Human Resource Development Centre, Centre for Professional Development in Higher Education (CPDHE), University of Delhi (DU), Delhi.
- One Week Online Faculty Development Programme on “**ICT ENABLED TEACHING LEARNING**” from **7th Sep ,2020 - 13th Sep, 2020** Ministry of Human Resource Development Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching Learning Centre Ramanujan College, University of Delhi organized by Ramanujan College University of Delhi and Janki Devi Memorial College University of Delhi.
- One week online FDP on “**Machine Learning Applications in Image Processing**” from **23rd Nov,2020 - 27th Nov,2020** organized by Deptt. of Computer Science & Engineering, IGDTUW, New Delhi.
- One week (Online) Faculty Development Programme on “**Moving Towards New Normal through Effective Online Teaching**” from **1st Dec,2020 - 7th Dec,2020** organized by Kalindi College,University of Delhi in collaboration with Mahatma Hansraj Faculty Development Hansraj College, University of Delhi, New Delhi. A Centre of MoE,Govt. of IndiaUnder Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.

Research Projects (Major Grants/Research Collaboration)

- I was involve with student Innovation projects for the year 2013-14,**ANDC-202,“Development of low cost computer controlled science laboratory using sensors and open source hardware and software tools”** approved by University of Delhi, project cost is 6.0 lakhs, successfully completed.
- I was involving with student Star project “Secure Data communication through router based centralized controlled network”, Under the Star College Scheme (2018-19).
- I am involve with student the Star project “Tool for on-line choice-based question answer system for student evaluations (**Interdisciplinary Projects**)” , Under the Star College Scheme (2019-20)
- I was involve with students project under star ELITE (Education in a Lively Innovative Environment) project title is “**The Learning Hub**” and “**Social Campus**” is completed successfully.

Awards and Distinctions
Academic awards and distinctions: Teaching Excellence Award for Innovation during the academic session 2014-15 given by University of Delhi.
Association With Professional Bodies
<ol style="list-style-type: none"> 1. International Conference on Computing Communication and Automation (ICCCA2014-2017)IEEE as a paper reviewers and Session Chair organized by Deptt. Comp.Sc. & Engg. Galgotias University, UP,India. 2. SCI Inderscience International Journals(As a paper reviewer) 3. IDT Journal(IOS Press) (As a paper reviewer) 4. Smart and Innovative Trends in next Generation Computing Technologies 3rd Conference (NGCT 2017) organized by Deptt. Comp.Sc. & Engg, UPES, Dehradun, India (Springer) As a paper reviewer.
Other Activities
<p>Committees Membership: NSS, Sports, Canteen, Proctorial, Spic-Macay, College Development Cell , Social Outreach Programme ,Turing Society (Convener 2016-2020), Admission Committee (Convener 2019-2020), Library Committee , Internal Quality Assurance Cell(IQAC)(2016-2018) and Excursion Convener(2013-2020) etc.</p> <p>Field-Based Activities:</p> <ol style="list-style-type: none"> Gyanodaya Educational Train Journey (University of Delhi) , 11th – 19th March 2014. Educational trip to Nainital and Jim Corbett Park , 7th -10th March 2013. Educational trip to Kulu Manali, 22nd – 26th March 2014. Educational trip to Udaipur and Mount Abu (Rajasthan), Session 2016-17. Educational trip to Shimla, from 11th October 2017 to 14th October 2017(Session 2017-18) Educational trip to Goa, 13th October- 18th October 2018(Session 2018-19) <p>Curriculum Development: Involved in course designing and setting guidelines for papers of B.Sc.(H) Comp.Sc.: Computer Networks and Network Programming and Administration.</p>



(Signature of Faculty Member)